

ATTACHMENT 2

COPY OF USSN 60/195,548

Class	Subclass
ISSUE CLASSIFICATION	

SCANNED

PROVISIONAL
APPLICATION
NUMBER

SCAN 3 AA ②
OC he KW (FACE)

PATENT APPLICATION



60195548

APPROVED FOR LICENSE

INITIALS

APR 20 2004

60195548



04/07/00

Date
Entered
for
Counted

CONTENTS

Date
Received
or
Mailed

1. Application papers	
2. Request for withdrawal	9/27/00
3. Request for Access	5/1/05
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Bib Data Sheet

UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark OfficeAddress: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER 60/195,548	FILING DATE 04/07/2000 RULE -	CLASS -	GROUP ART UNIT -	ATTORNEY DOCKET NO. 20424-704
APPLICANTS Mike Parker, New York, NY ; John Szinger, New York, NY ; Mark Avnet, New York, NY ;				
** CONTINUING DATA *****				
** FOREIGN APPLICATIONS *****				
IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 06/08/2000				
Foreign Priority claimed <input type="checkbox"/> yes <input type="checkbox"/> no 35 USC 119 (a-d) conditions <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after met Allowance		STATE OR COUNTRY NY	SHEETS DRAWING 19	TOTAL CLAIMS - INDEPENDENT CLAIMS -
ADDRESS Wilson Sonsini Goodrich & Rosati 650 Page Mill Road Palo Alto, CA 94304-1050				
TITLE BeamToMe: point-to-point communication device for PDAs				
FILING FEE RECEIVED 150	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	

PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

04/14/2000 BRAZIEB 00000010 232415 60195548
01 FC:114 150.00 CH

PTO-1556
(5/87)

U.S. GPO: 1999-459-022/19144

04-10-00

AP

Approved for use through 04/11/98. OMB0651-0037
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PROVISIONAL APPLICATION COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION under 37 CFR § 1.53(c)

Express Mail label number EL341844866US Date of Deposit April 7, 2000
I hereby certify that this paper or fee is being deposited with the United States Postal Service

"Express Mail Post Office to Addressee" service under 37 CFR § 1.10
on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, DC 20231.

Drew Herndon
Name of person signing

Drew A. Herndon
Signature

Docket Number	20424-704	Type a plus sign (+) inside this box	+
---------------	-----------	--------------------------------------	---

INVENTOR(s)/APPLICANT(s)			
LAST NAME	FIRST NAME	MIDDLE INITIAL	RESIDENCE (CITY AND EITHER STATE OR FOREIGN COUNTRY)
PARKER	Mike		New York, New York USA
SZINGER	John		New York, New York USA
TITLE OF THE INVENTION (280 characters max)			
BeamToMe: Point-to-Point Communication Device for PDAs			
CORRESPONDENCE ADDRESS			
WILSON SONSINI GOODRICH & ROSATI 650 Page Mill Road Palo Alto, California 94304-1050 Telephone: (650) 493-9300 Facsimile: (650) 493-6811			
ENCLOSED APPLICATION PARTS (check all that apply)			
<input checked="" type="checkbox"/> Specification	Number of Pages <u>4</u>	<input type="checkbox"/> Small Entity Statement	
<input checked="" type="checkbox"/> Drawing(s)	Number of Sheets <u>19</u>	<input type="checkbox"/> Other (specify) _____	
METHOD OF PAYMENT (check one)			
<input type="checkbox"/> A check or money order is enclosed to cover the Provisional filing fees.		PROVISIONAL FILING FEE AMOUNT (\$)	\$150.00
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge filing fees and credit Deposit Account Number: <u>23-2415</u> (Docket No. 20424-704)			

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.
☐ Yes, the same of the U.S. Government agency and the Government contract numbers are: _____

Respectfully submitted,

SIGNATURE Paul Davis

Date: April 7, 2000

TYPED or PRINTED NAME Paul Davis REGISTRATION NO. 29,294

(if appropriate)

☒ Additional inventors are being named on separately numbered sheets attached hereto.

PROVISIONAL APPLICATION FILING ONLY

BeamToMe: Point-to-Point Communication Device for PDAs

Inventors: Mike Parker, John Szinger and Mark Avnet

Section 1: Description of Method and Apparatus:

BeamToMe is a hardware device that provides telecommunication connectivity between various and sundry electronic devices. Specifically, it provides for digital data transfer of data from one device to another, peer to peer, point to point, over a switched-circuit analog audio network (i.e. land-based or cellular telephone service). It provides interconnectivity and translation to convert the signal from the end-of-connection device (e.g. a Palm Pilot with I/O provided by the infrared port) to a format conducive to transmission over an audio connection.

The Scenario:

The dawn of the twenty first century: a new age of personal communications and connectivity. Mike, a typical knowledge worker in the new economy, is headed downtown to an important meeting. On the way realizes he forgot an important document. Luckily for him this is no problem. He scuttles to the closest payphone and places a call to John back at the office, asking him to transfer this information to him over their voice connection. Mike connects his Palm Pilot to a simple device and holds it up to the phone, receiving the data John sends in a burst of noise from a similar unit. Mike thanks him and hangs up. The total transfer has cost Mike a minute or two of John's time and 25c for the phone call. Simple as that. No logging on to the net, no dealing with an ISP, no cumbersome synching of the PDA with some host computer. Mike is off and on his way.

The Product:

The BeamToMe product is the "simple device" in the scenario described above. It converts electronic data signals from a PDA or other similar device into an acoustic signal which can be transmitted and received over an ordinary analog phone connection. This device offers a level of freedom not associated with traditional data connections. It supports direct point-to-point data communication by two parties at any locations, so long as they are proximal to a telephone. It bypasses the Internet, the cumbersome and costly Internet Service Provider, and time-consuming dialup and logon procedures. The BeamToMe data transfer interoperates with a standard voice call. The device interfaces directly with the phone handset, providing an instant peer-to-peer digital data connection, allowing the user to transmit their in an ordinary voice conversation rather than go thru the trouble of establishing a separate data connection in a separate channel.

The BeamToMe device uses new technology to realize an ultraminiature design suited to today's environment of lightweight portable computing, cell phones and PDAs. State-of-the-art electronics provide a high-bandwidth, low-noise signal even in a noisy ambient environment. The device could be as small as today's tiny walkman headphones, and similar in form: two little nubs and a y-shaped wire with a jack. The jack plugs into your PDA. The two little nubs are the acoustic transducers. One goes on the phone by the speaker to listen, the other by the mic to transmit signal.

The Technology:

The key elements of the BeamToMe technology are: the acoustic coupling, electronic noise cancellation, encryption, device connectivity, and the product form factor.

Acoustic Coupling:

Some versions of the BeamToMe device (see product matrix below) use an acoustic coupling between the BeamToMe unit and the telephone. One possibility for the acoustic coupling is to use small piezo-electric transducers that attach directly to the acoustic device (i.e. the telephone handset), potentially yielding a very high signal-to-noise ratio. Rather than extract a relatively low intensity signal from the airwaves, the transducer picks up the signal from the vibrating plastic shell of the phone. Another option may be to use miniature pressure-sensitive microphones. Finding the optimal technology will require some amount of research and development. The application of these technology to the BeamToMe device may be novel and therefore protectable by patents.

Noise Cancellation:

Although the general problem of extracting a signal from a noisy environment thru DSP is not solved, there has been research in this area, and certain problems are well understood, and there are numerous technologies that embody partial solutions to the general problem or total solutions to special cases. One potential solution is phase inversion. The application of this technology to the BeamToMe device may be novel and therefore protectable by patents. Other, more elaborate approaches are possible, too, which may also be protectable in their application to the BeamToMe device.

Encryption:

Strong crypto provides security to users, instilling them with the confidence to use the BeamToMe wherever they go. Application of encryption algorithms to the BeamToMe device may be novel and protectable.

Device Connectivity:

The essence of this device is that it affords connectivity between previously unconnected devices. Devices targeted for connectivity by BeamToMe include:

- PDAs (Palm Pilot, Handspring Visor, etc.),
- Cell Phones,
- Personal Computers (laptops as well as workstations), and
- New convergence devices, which are being introduced into the market in the near future.

Possible connection modalities for the BeamToMe Device include:

- From a PDA to acoustic transducer via IR, serial, dedicated plug-in port.
- From a Cell phone to acoustic transducer via IR or serial.
- From a PC (laptop or workstation) to acoustic transducer via IR, serial, USB, FireWire, PCMCIA, or other connection.

The matrix of connections is detailed below.

The application of these technologies to the BeamToMe device may be novel and therefore protectable by patents. Specifically, we believe a device which enables to point-to-point data transfer that converts signals from one format (e.g. IR) to another (e.g. acoustic) is protectable.

Section 2: Example Application(s):

The dawn of the twenty first century: a new age of personal communications and connectivity. Mike, a typical knowledge worker in the new economy, is headed downtown to an important meeting. On the way he realizes he forgot an important document. Luckily for him this is no problem. He scuttles to the closest payphone and places a call to John back at the office, asking him to transfer this information to him over their voice connection. Mike connects his Palm Pilot to a simple device and holds it up to the phone, receiving the data John sends in a burst of noise from a similar unit. Mike thanks him and hangs up. The total transfer has cost Mike a minute or two of John's time and 25c for the phone call. Simple as that. No logging on to the net, no dealing with an ISP, no cumbersome synching of the PDA with some host computer. Mike is off and on his way.

THE UNIVERSITY OF CHICAGO

Section 3: Charts'n'Graphs:

1. Matrix of Connectivity

Host Device	Device Link	Network Link	Network Interface
PDA	IR	Acoustic	Regular Phone
Computer	Serial	Audio Jack	Cellular Phone
Other Device	USB		Other Device
	Other HW Jack		

2. Connectivity Combinatorics

1	PDA	IR	Acoustic	Regular Phone
2	PDA	Jack	Acoustic	Regular Phone
3	PDA	IR	Acoustic	Cellular Phone
4	PDA	Jack	Acoustic	Cellular Phone
5	PDA	IR	Audio Jack	Cellular Phone
6	PDA	Jack	Audio Jack	Cellular Phone
7	PDA	IR	Acoustic	Other Device
8	PDA	Jack	Acoustic	Other Device
9	PDA	IR	Audio Jack	Other Device
10	PDA	Jack	Audio Jack	Other Device
11	Computer	IR	Acoustic	Regular Phone
12	Computer	Jack	Acoustic	Regular Phone
13	Computer	IR	Acoustic	Cellular Phone
14	Computer	Jack	Acoustic	Cellular Phone
15	Computer	IR	Audio Jack	Cellular Phone
16	Computer	Jack	Audio Jack	Cellular Phone
17	Computer	IR	Acoustic	Other Device
18	Computer	Jack	Acoustic	Other Device
19	Computer	IR	Audio Jack	Other Device
20	Computer	Jack	Audio Jack	Other Device
21	Other Device	IR	Acoustic	Regular Phone
22	Other Device	Jack	Acoustic	Regular Phone
23	Other Device	IR	Acoustic	Cellular Phone
24	Other Device	Jack	Acoustic	Cellular Phone
25	Other Device	IR	Audio Jack	Cellular Phone
26	Other Device	Jack	Audio Jack	Cellular Phone
27	Other Device	IR	Acoustic	Other Device
28	Other Device	Jack	Acoustic	Other Device
29	Other Device	IR	Audio Jack	Other Device
30	Other Device	Jack	Audio Jack	Other Device

Fig. 1: PDA - IR - BeamToMe - Acoustic Coupling - Standard Telephone

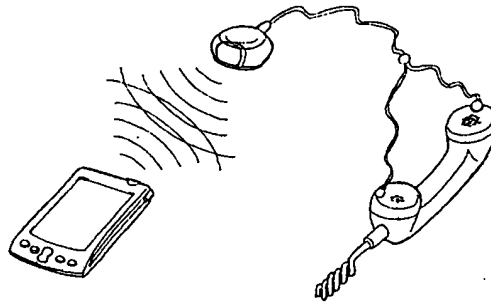
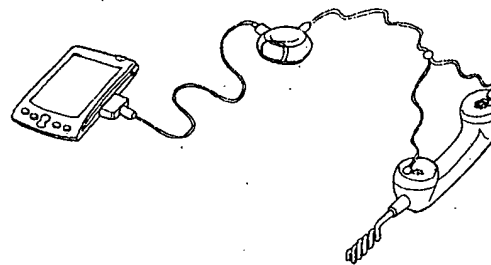
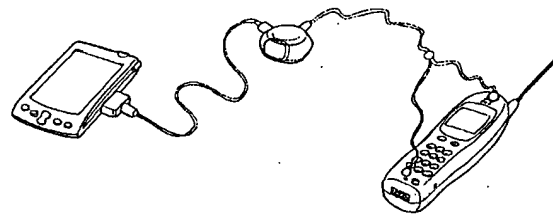


Fig. 2: PDA - Hardware Jack - BeamToMe - Acoustic Coupling - Standard Telephone



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Fig. 5: PDA - IR - BeamToMe - Audio Jack - Cellular Telephone

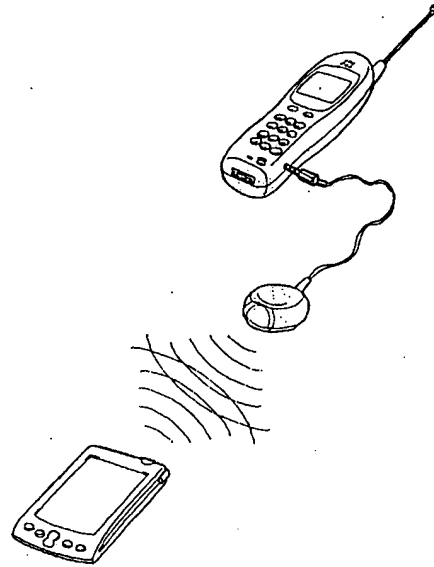


Fig. 6: PDA - Hardware Jack - BeamToMe - Audio Jack - Cellular Telephone

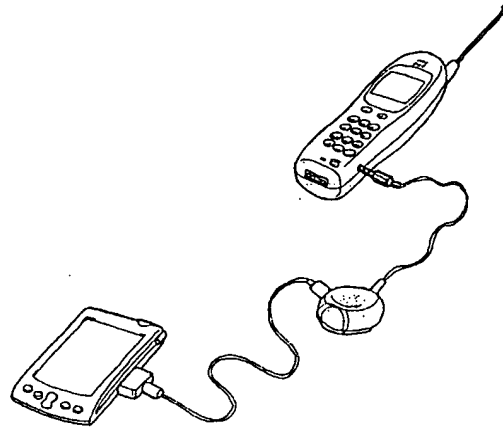


Fig. 7: PDA - IR - BeamToMe - Acoustic Coupling - Other Device

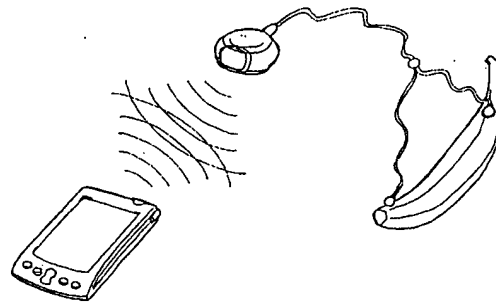
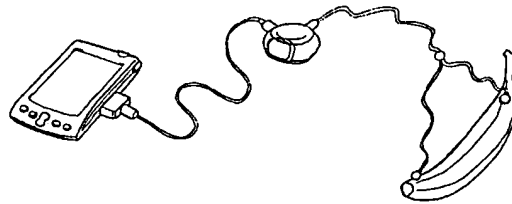


Fig. 8: PDA - Hardware Jack - IR - BeamToMe - Acoustic Coupling - Other Device



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Fig. 9: PDA - IR - BeamToMe - Audio Jack - Other Device

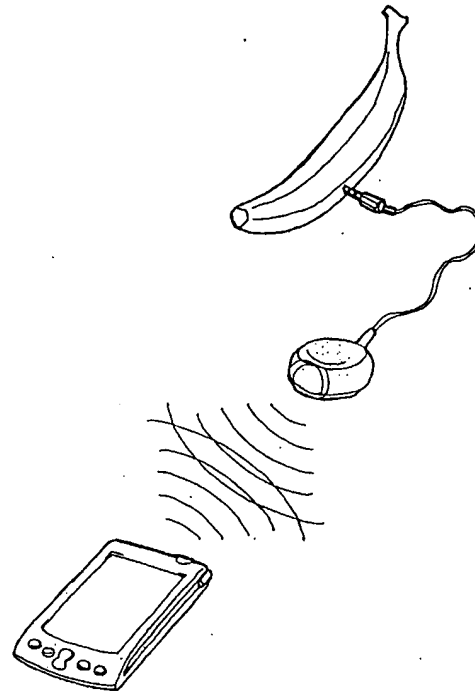


Fig. 10: PDA - Hardware Jack - BeamToMe - Audio Jack - Other Device

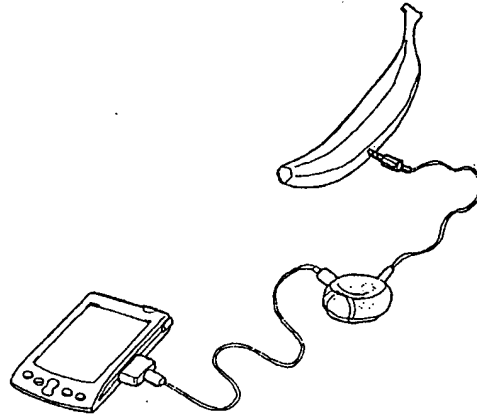


Fig. 11: Computer - IR - BeamToMe -Acoustic Coupling - Standard Telephone

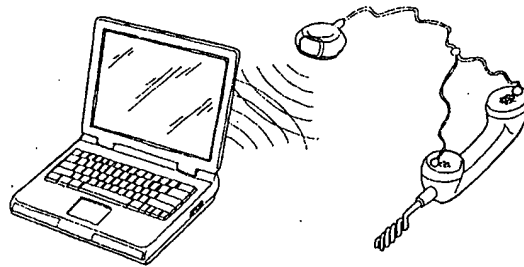


Fig. 12: Computer - Hardware Jack - BeamToMe -Acoustic Coupling - Standard Telephone

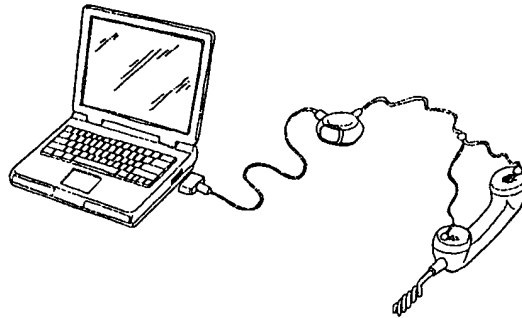
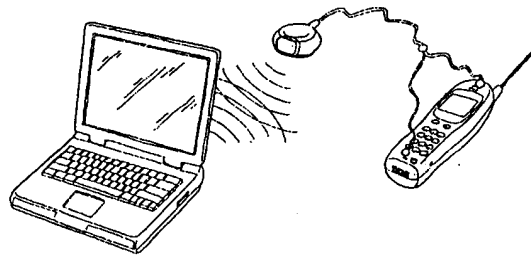


Fig. 13: Computer - IR - BeamToMe -Acoustic Coupling - Cellular Telephone



0020310-010000

Fig. 14: Computer - Hardware Jack - BeamToMe -Acoustic Coupling - Cellular Telephone

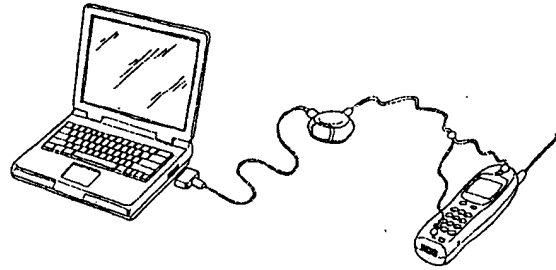


Fig. 15: Computer - IR - BeamToMe - Audio Jack - Cellular Telephone

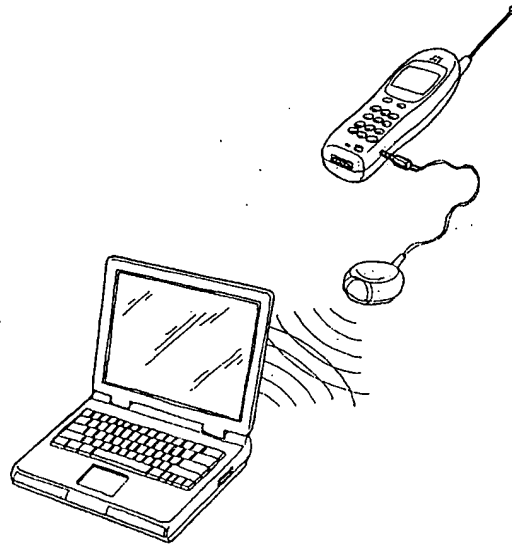


Fig. 16: Computer - Hardware Jack - BeamToMe -Audio Jack - Cellular Telephone

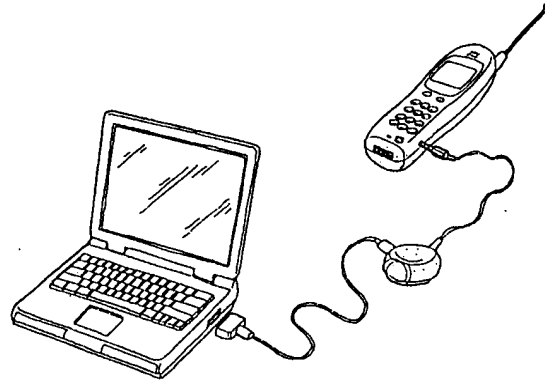


Fig. 17: Computer - IR - BeamToMe -Acoustic Coupling - Other Device

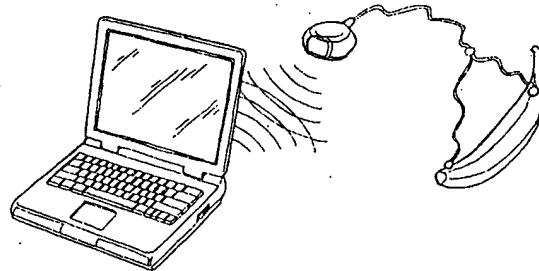


Fig. 18: Computer - Hardware Jack - BeamToMe -Acoustic Coupling - Other Device

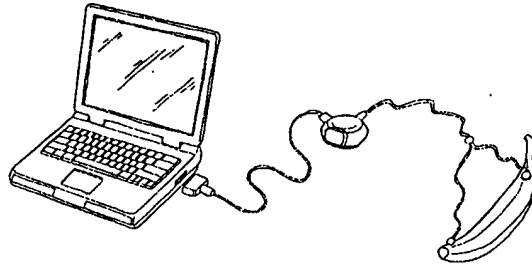


Fig. 19: Computer - IR - BeamToMe - Audio Jack -Other Device

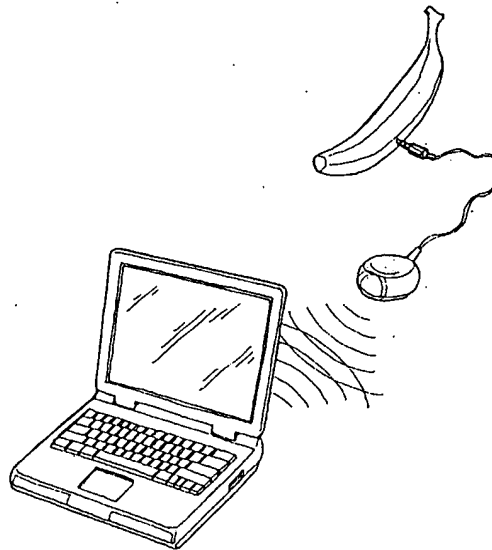


Fig. 20: Other Device - Hardware Jack - BeamToMe - Audio Jack - Other Device

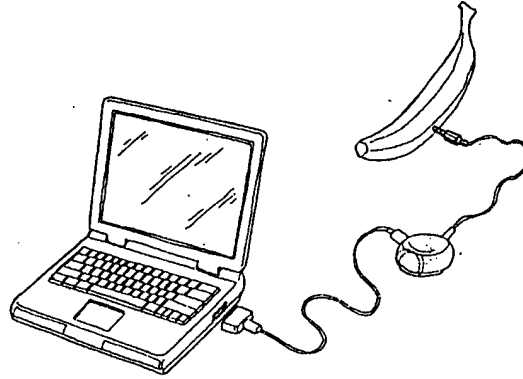


Fig. 21: Other Device - IR - BeamToMe - Acoustic Coupling - Standard Telephone

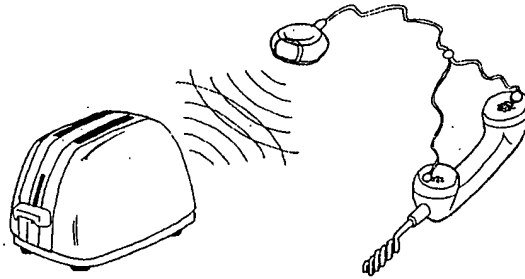


Fig. 22: Other Device - Hardware Jack - BeamToMe -Acoustic Coupling - Standard Telephone

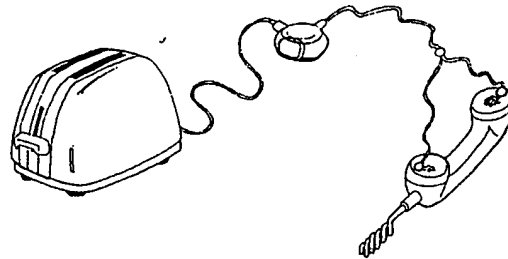


Fig. 23: Other Device - IR - BeamToMe -Acoustic Coupling - Cellular Telephone

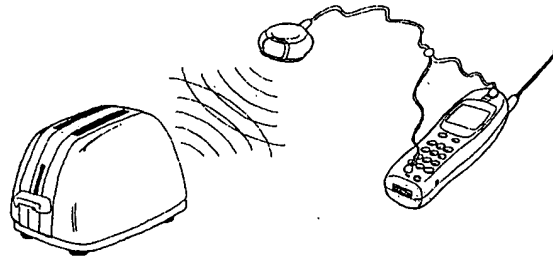


Fig. 24: Other Device - Hardware Jack - BeamToMe -Acoustic Coupling - Cellular Telephone

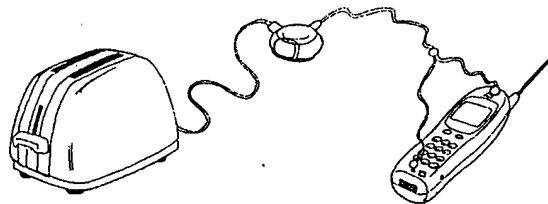


Fig. 25: Other Device - IR - BeamToMe - Audio Jack - Cellular Telephone

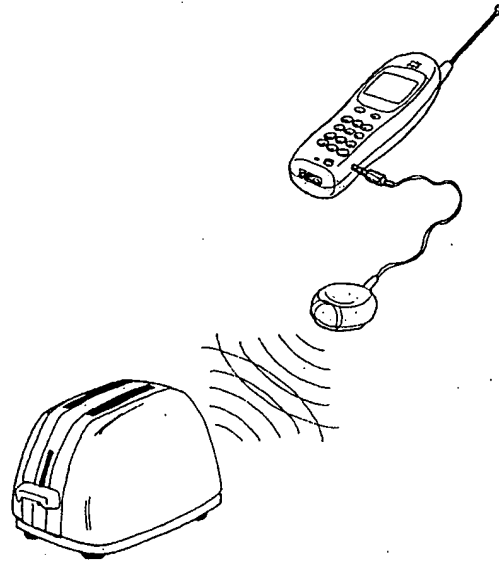


Fig. 26: Other Device - Hardware Jack - BeamToMe -Audio Jack - Cellular Telephone

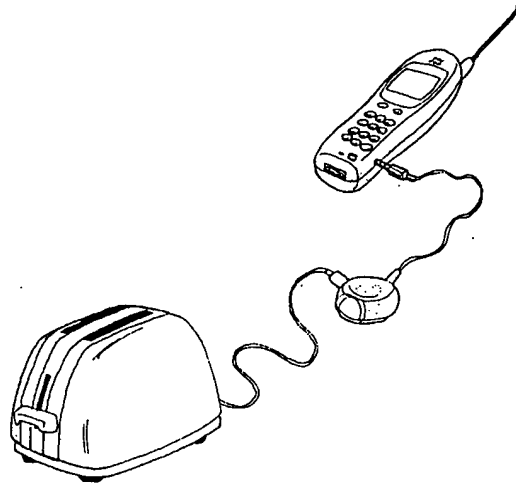


Fig. 27: Other Device - IR - BeamToMe -Acoustic Coupling - Other Device

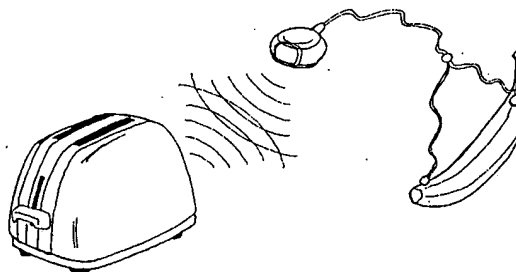


Fig. 28: Other Device - Hardware Jack - BeamToMe -Acoustic Coupling - Other Device

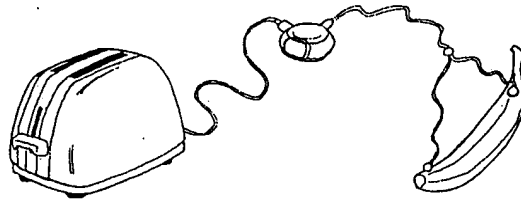


Fig. 29: Other Device - IR - BeamToMe - Audio Jack -Other Device

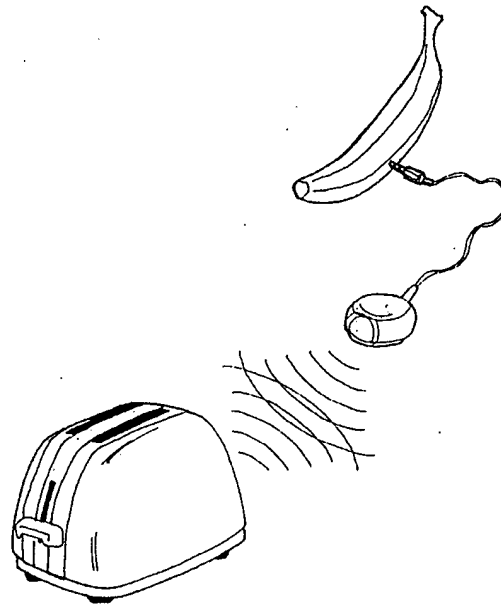
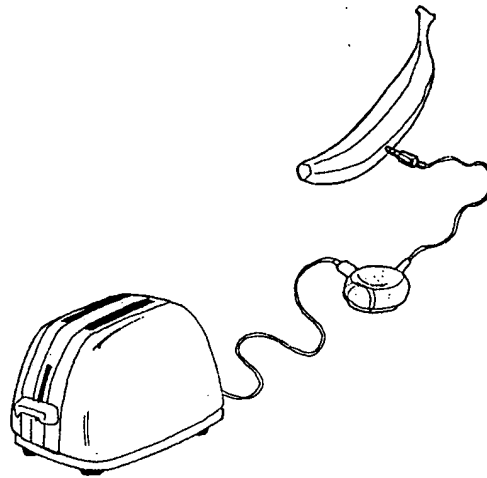
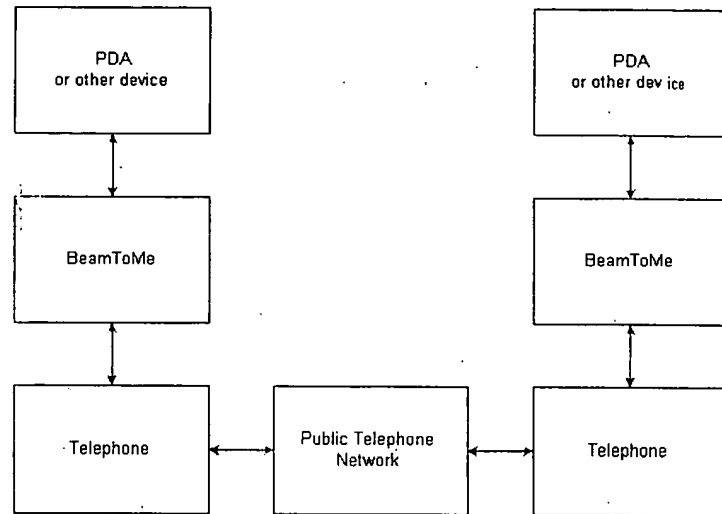


Fig. 30: Other Device - Hardware Jack - BeamToMe -Audio Jack - Other Device

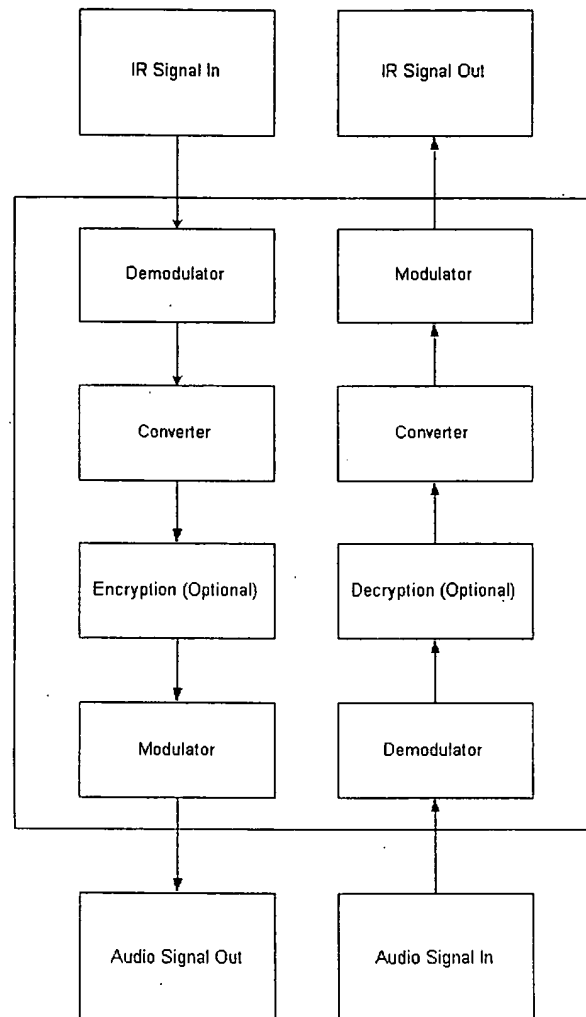


2013-01-10 10:10:10

End-to-end Communication Path Between Two Devices Using BeamToMe



Schematic of BeamToMe Internal Communication and Signal Conversion Path



002010-010700

Practitioner's Docket No. 20424-704



9200/NO
PATENT
#2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Mike Parker, et al.
Serial No.: 60/195,548 ✓
Filed: April 7, 2000
For: Beam to Me: Point-To-Point Communication Device for PDA's

Group No.: n/a
Examiner: n/a

Commissioner for Patents
Washington, D.C. 20231
ATTENTION: Director, Group

REQUEST FOR WITHDRAWAL AS ATTORNEY (37 C.F.R. 10.40(c))

REQUEST FOR PERMISSION TO WITHDRAW

1. I, an attorney signing below, respectfully request permission to withdraw from all further responsibility in this case, in accordance with 37 C.F.R. 1.36.

LAST KNOWN ADDRESS OF CLIENT

2. The last known mailing address of the assignee of the entire interest is:

Lot21 Interactive Advertising
548 Fourth Street
San Francisco, CA 94107

BASIS FOR WITHDRAWAL REQUEST

3. The basis for the request for withdrawal is 37 C.F.R. § 10.40(c)(1), (2), (3), (4), (5), and (6).

Explanation (including brief description of exhibits, if any):

A mutual understanding was reached that Wilson, Sonsini, Goodrich & Rosati is no longer acting counsel for the client.

ALLOWANCE OF TIME FOR CLIENT TO ACT

4. Status of this Application

☐ Response due:
☒ There is no outstanding term for response.



NOTIFICATION OF CLIENT

5. In accordance with 37 C.F.R. 10.40(a), a copy of this request, including attachments, is being sent to the client.

A copy of the letter to the client is attached.

NUMBER OF COPIES OF REQUEST

6. This request is enclosed in triplicate.

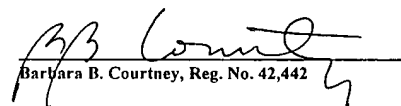
RELATED APPLICATIONS

7. Related Applications for Which Withdrawal is Requested
Withdrawal also is (has been) requested in the following related applications of the assignee.

<u>Application Number</u>	<u>Group</u>	<u>Status of Withdrawal request</u>
---------------------------	--------------	-------------------------------------

SIGNATURE OF WITHDRAWING PRACTITIONER

8. Signature(s) of the attorney(s) withdrawing (or signature of an authorized attorney on behalf of an attorney withdrawing)


Barbara B. Courtney, Reg. No. 42,442

WILSON SONSINI GOODRICH & ROSATI
650 Page Mill Road
Palo Alto, California 94304
Telephone: (650) 493-9300
Customer No. 021971



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SERIAL NUMBER 60/195,548	FILING DATE 04/07/2000 RULE -	CLASS -	GROUP ART UNIT -	ATTORNEY DOCKET NO. 20424-704
APPLICANTS Mike Parker, New York, NY ; John Szinger, New York, NY ; Mark Avriet, New York, NY ; ** CONTINUING DATA ***** ** FOREIGN APPLICATIONS *****				
IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 06/08/2000				
Foreign Priority claimed <input type="checkbox"/> yes <input type="checkbox"/> no 35 USC 119 (a-d) conditions <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance Verified and Acknowledged <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance Examiner's Signature _____ Initials _____		STATE OR COUNTRY NY	SHEETS DRAWING 19	TOTAL CLAIMS -
INDEPENDENT CLAIMS -				
ADDRESS Lot 21 Interactive Advertising 548 Fourth Street San Francisco ,CA 94107				
TITLE BeamToMe: point-to-point communication device for PDAs				
FILING FEE RECEIVED 150	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	



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APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
60/195,548	04/07/2000	Mike Parker	20424-704

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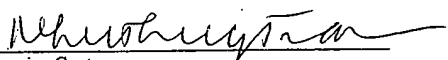


Date Mailed: 11/13/2000

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/27/2000.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.


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60/195548

April 7, 00

Paper No. 3

I hereby request access under 37 CFR 1.14(a)(1)(iv) to the application file record of the above-identified ABANDONED application, which is identified in, or to which a benefit is claimed, in the following document (as shown in the attachment):

United States Patent Application Publication No. 2002/0054787 page, _____ line _____

United States Patent Number _____, column _____, line _____ or

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